abcam

Product datasheet

PE/Cy5® Anti-CD19 antibody [4G7], prediluted ab157303

1 Image

Overview

Product name	PE/Cy5® Anti-CD19 antibody [4G7], prediluted
Description	PE/Cy5® Mouse monoclonal [4G7] to CD19, prediluted
Host species	Mouse
Conjugation	PE/Cy5®. Ex: 496nm, Em: 670nm
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus corresponding to Human CD19. Human CCL (chronic lymphocytic leukemia) cells.
Positive control	Flow Cyt: Human peripheral blood leukocytes.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.4 Preservative: 0.1% Sodium azide Constituents: 99% PBS, 0.2% BSA
Purity	Size exclusion
Clonality	Monoclonal
Clone number	4G7
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab157303 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 4µl for 10^6 cells. **ab67435** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function Assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

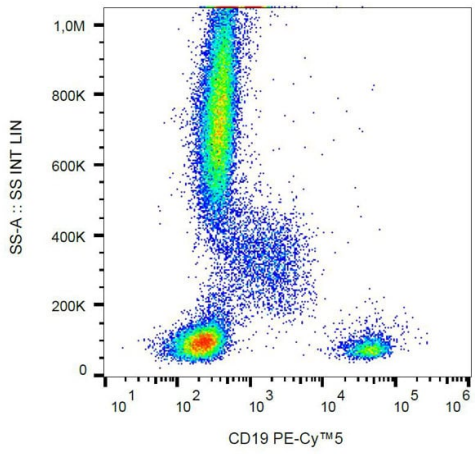
Involvement in disease Defects in CD19 are the cause of immunodeficiency common variable type 3 (CVID3) [MIM:613493]; also called antibody deficiency due to CD19 defect. CVID3 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.

Sequence similarities Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

Post-translational modifications Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation.

Cellular localization Membrane.

Images



Flow Cytometry - PE/Cy5® Anti-CD19 antibody [4G7], prediluted (ab157303)

Surface staining of human peripheral blood leukocytes with ab157303.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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